


Figure 1 consists of 12 subplots, each showing a histogram of the number of non-zero elements in the rows of the matrix  $A_k$  for  $k = 1, 2, \dots, 12$ . The x-axis for all plots is 'Number of non-zero elements' with ticks at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. The y-axis is 'Frequency' with ticks at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. The distributions are as follows:

- $k=1$ : peak at 4 (frequency 10)
- $k=2$ : peak at 4 (frequency 10)
- $k=3$ : peak at 4 (frequency 10)
- $k=4$ : peak at 4 (frequency 10)
- $k=5$ : peak at 4 (frequency 10)
- $k=6$ : peak at 4 (frequency 10)
- $k=7$ : peak at 4 (frequency 10)
- $k=8$ : peak at 4 (frequency 10)
- $k=9$ : peak at 4 (frequency 10)
- $k=10$ : peak at 4 (frequency 10)
- $k=11$ : peak at 4 (frequency 10)
- $k=12$ : peak at 4 (frequency 10)

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